

Assignment - 2

Q-1) Answer the Following

- 1) If $f(x) = x^2 - x + 1$ then find $f(0) + f(-1)$
- 2) Define Constant function
- 3) If $f(x) = \frac{x(x-2)}{x-1}$ then find $f(0) + f(-1) + f(3) + f(2)$
- 4) The fixed cost of a factory producing particular types of bag is 9000₹ and the variable cost per bag is 110₹. If the selling price per bag is 240₹ then find the profit function.
- 5) If $f: N \rightarrow N, f(x) = \frac{x^2(x+1)^2}{4}$ then find $f(x) - f(x-1)$
- 6) If $f: Z - \{-1\} \rightarrow Z; f(x) = \frac{x^3+1}{x+1}$ and $g: Z \rightarrow Z; g(x) = x^2 - x + 1$ then examine whether the functions are.
- 7) If $f(x) = \frac{x^2-x}{x+3}$ then find $\frac{f(1)+f(2)}{f(-2)+f(0)}$
- 8) If the demand function is $d = f(p) = 2000 - 3p^2$ then find the demand when $p = 25$ and also find p when demand is 4